	Application No.	Applicant(s)
Notice of Allowability	09/856,627 Examiner	HASHIMOTO, NOBUAKI Art Unit
	LAUMINO	Attonic
	Ida M Soward	2822
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS Is herewith (or previously mailed), a Notice of Allowance (PTOL-88 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT IS of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in 5) or other appropriate common RIGHTS. This application is s	n this application. If not included unication will be mailed in due course. THIS
1. $igtimes$ This communication is responsive to ${\it the Applicants americal}$	ndment filed August 5, 2004.	
2. $igspace$ The allowed claim(s) is/are <u>1,2,4,5 and 10-20</u> .		
3. $igstyle{igtimes}$ The drawings filed on <u>5-24-01</u> are accepted by the Exam	iner.	
 4. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 	ve been received.	
3. ☐ Copies of the certified copies of the priority d	* *	
International Bureau (PCT Rule 17.2(a)).	outilionio navo boom roccivo	a in the national stage application from the
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be sub- INFORMAL PATENT APPLICATION (PTO-152) which give	mitted. Note the attached EXA ves reason(s) why the oath of	AMINER'S AMENDMENT or NOTICE OF declaration is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets") mu	ust be submitted.	
(a) ☐ including changes required by the Notice of Draftspe	rson's Patent Drawing Review	v (PTO-948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	 '	
(b) ☐ including changes required by the attached Examine Paper No./Mail Date	r's Amendment / Comment or	in the Office action of
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the header according to 37 CF	ne drawings in the front (not the back) of R 1.121(d).
 DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT 	OSIT OF BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Note the DLOGICAL MATERIAL.
Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of In	formal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413),
 Information Disclosure Statements (PTO-1449 or PTO/SB, Paper No./Mail Date 3-24-03 		Mail Date Amendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. 🗌 Examiner's	Statement of Reasons for Allowance
of Biological Material	9. 🗌 Other	-1
	SUP	AMIR ZARABIAN ERVISORY PATENT EXAMINER ECHNOLOGY CENTER 2800

DETAILED ACTION

This Office Action is in response to the Applicant's amendment filed August 5, 2004.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Daniel A. Tanner, III on September 2, 2004.

The application has been amended as follows: "**comprising**" has been changed to **including** in line 3 of the abstract.

Allowable Subject Matter

Claims 1-2, 4-5 and 10-20 are allowed.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Application/Control Number: 09/856,627

Art Unit: 2822

The following patents are cited to further show the state of the art with respect to interconnect substrate semiconductor structures:

Akram et al. (6,165,817) Arledge et al. (5,436,744)

Karpusiewicz et al. (5,202,045) Kornrumpf (5,345,205)

Malhi (6,084,778) McTaggart (5,609,488)

Smith et al. (5,244,023) Wojnarowski et al. (5,200,810).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ida M Soward whose telephone number is 571-272-1845. The examiner can normally be reached on Monday - Thursday, 6:30 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian can be reached on 571-272-1852. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 09/856,627

Art Unit: 2822

Page 4

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September 2, 2004

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SUPERVISORY PATENT EXAMINER
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